## DO NOT ENTER: /M.A./ 23 February 2011

0321.68812

PATENT APPLICATION

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Michael J. Sailor

Serial No.: 10/589,741

Conf. No.: 9856

Filed: 8/16/2006

For: OPTICALLY ENCODED PARTICLES

WITH GREY SCALE SPECTRA

Art Unit: 2876

Examiner: Michael S. Andler

Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

# <u>DECLARATION OF PRIOR INVENTION TO OVERCOME</u> SAILOR U.S. PUBLISHED APPLICATION WO 2003/067231 (37 C.F.R. §1.131)

#### PURPOSE OF DECLARATION

This Declaration is to establish completion of the invention as claimed in at least claim 18 of this application in the United States at a date prior to August 14, 2003, which is the date of publication of WO 2003/067231. The person making this Declaration is an inventor.

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### DECLARATION

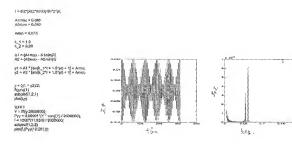
- I am a named inventor in the present patent application, and have personal knowledge of the facts stated herein.
- I am Professor of Chemistry and Biochemistry and Bioengineering at the University of California, San Diego. I hold a B.S. degree in Chemistry from Harvey Mudd College, and M.S. and Ph.D. degrees in Chemistry from Northwestern University.
- The invention as claimed in at least claim 18 was completed before August 14, 2003.
- The invention claimed in the present application in at least claim 18
  was completed and conducted in experiments that produced grey scale photonic particles
  prior to August 14, 2003.
- 5. Specifically, the present application describes experiments on pages 6-7 with the following paragraph "Experiments were conducted to demonstrate the invention. Grey scale samples were prepared by anodically etching p++ type, B-dope, (100) oriented silicon with <1mOhm-cm resistivity in a solution of 3:1 HF (48%, aq)/ethanol by volume. Computer generated anodic current waveforms consistent with the above explanations for grey scale coding were applied and a platinum mesh electrode was used as the counter electrode. Results were consistent with expectations." These experiments were completed on July 9, 2003. An excerpt from the invention disclosure that my co-inventor, Shawn Meade, and I signed on August 14, 2003 indicating the

reduction to practice by July 9, 2003 is shown below.

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G. INVENTORS SIGNATURES by signalia below, I administrating my respon	oibilities and		SS - invention disclosed to and understood by:		
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 The following data was taken from the reduction to practice that was completed on July 9, 2003 for samples with two spectral line ratiometric grey scale coding.



Sample		Atmax	AZIRON	1.3	3.2	31	12	ALA2	N42 148.2	
WE IA	122	45	45	3.CVC	88,819	2486	2850		5.87   E.S.30560	
W5 17	1 125	46	46	252.23	398,78	2743	2950	1,125	2.634367	
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WS 19		88	25	500,60			2045	1,52	1.28   0.830013	
395,20	1 128	66	38	579.93	622.22	3480	1888		1.84   0.991997	

 The following data was taken from the reduction to practice that was completed on July 9, 2003 for samples with ten spectral line ratiometric grey scale coding.



8. As a person signing below, I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both under 18 U.S.C. §1001, and that such willful statements may jeopardize the validity of this application or any patent issued thereon.

Declarant's Signature:

Date:

Address: Citizenship: Michael J. Sailor Friday, January 7, 2011

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USA